

INFORMATION DISCLOSURE CITATION

PTO-1449

 ATTY. DOCKET NO.
A-58762-9/RFT/RMS

 SERIAL NO.
~~UNKNOWN~~ 09/306,749

 APPLICANT
Meade, et al.

 FILING DATE
May 7, 1999

 GROUP
~~Not Assigned~~ 1655

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
SE	A	4,707,352	11/17/87	Stavrianopoulos			
	B	4,707,440	11/1987	Stavrianopoulos	435	6	
	G	4,711,955	12/8/87	Ward, et al.			
	D	4,755,458	7/5/88	Rabbani, et al.			
	E	4,849,513	7/18/89	Smith, et al.	536	27	
	F	4,868,103	9/19/89	Stavrianopoulos, et al.			
	G	4,894,325	1/16/90	Englehardt, et al.			
	H	4,943,523	7/24/90	Stavrianopoulos			
	I	4,952,685	8/28/90	Stavrianopoulos			
	J	4,994,373	2/19/91	Stavrianopoulos			
	K	5,002,885	3/26/91	Stavrianopoulos			
	L	5,013,831	5/7/91	Stavrianopoulos			

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
SE	M	0 63879	11/3/82	Europe				
	N	9 210 757	6/25/92	PCT (WO)				
	O	9 515 971	6/15/95	PCT (WO)				
	P	0 234938	2/26/87	EP (A2)				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

SE	1	Alleman, K.S., et al., "Electrochemical Rectification at a Monolayer-Modified Electrode," <i>J. Phys. Chem.</i> , 100:17050-17058 (1996).					
	2	Arkin et al. "Evidence for Photoelectron Transfer Through DNA Intercalation," <i>J. Inorganic Biochem. Abstracts</i> , 6th International Conference on Bioinorganic Chemistry, 51(1) & (2):526 (1993).					

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EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
<i>SE</i>	Q	5,780,234	7-98	Meade et al.	435	6		
	R	5,770,369	6-98	Meade et al.	435	6		
	S	5,705,348	1-98	Meade et al.	435	6		
	T	5,591,576	1-97	Meade et al.	435	6		
	U	4,840,893	6-89	Hill et al.	435	6		
	V	5,403,451	4-95	Riviello et al.	204	153.1		
	W	5,620,850	4-97	Bamdad et al.	530	300		
	X	5,705,346	1-98	Okamoto et al.	435	6		
FOREIGN PATENT DOCUMENTS								
EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
<i>SE</i>	Y	98/35232	8-98	PCT				
	Z	6-41183	2-94	JP (English abstract) ✓				X
	AA	0 515 615	9-96	EP (UK)				
	BB	93/23425	11-93	WO				
	CC	90/05732	5-90	WO				
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EXAMINER <i>S. Z. Zomer</i>				DATE CONSIDERED 9-29-99				

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U.S. PATENT DOCUMENTS

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82	DD	5,082,830	1/21/92	Brakel, et al.			
	EE	5,175,269	12/29/92	Stavrianopoulos			
	EE	5,241,060	8/31/93	Englehardt, et al.			
	GG	5,278,043	1/11/94	Bannwarth, et al.	536	23.1	
	HH	5,312,527	5/17/94	Mikkelsen, et al.	204	153.12	
	II	5,328,824	7/12/94	Ward, et al.			
	JJ	5,449,767	9/12/95	Ward, et al.			
	KK	5,472,881	12/95	Beebe, et al.	436	94	
	LL	5,476,928	12/19/95	Ward, et al.			
	MM	5,495,908	1/21/97	Fawcett, et al.	534	11	
	NN	5,565,552	10/15/96	Magda, et al.	534	11	
	OO	5,573,906	11/12/96	Bannwarth, et al.	435	6	
	PP	5,601,982	2/1997	Sargent et al.	435	6	

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							Yes	No
82	QQ	9 310 267	5/27/93	PCT (WO)				
	RR	2 090904	9/24/93	CANADA				
	SS	0 599337	1/16/94	EPO				
	TT	238,166.0	1988 october	JP (Abstract (63-238166))				
	UU	0 229943	7/29/87	EP				

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<i>sz</i>	3	Barisci, et al., "Conducting Polymer Sensors," <i>TRIP</i> , 4(9):307-311 (1996).	
	4	Baum, R. M., "Views on Biological, Long-Range Electron Transfer Stir Debate," <i>C&EN</i> , pp 20-23 (1993).	
	5	Bechtold, R., et al., "Ruthenium-Modified Horse Heart Cytochrome c: Effect of pH and Ligation on the Rate of Intramolecular Electron Transfer between Ruthenium(II) and Heme(III)," <i>J. Phys. Chem.</i> , 90(16):3800-3804 (1986).	
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	8	Boguslavsky, L. et al., "Applications of redox polymers in biosensors," <i>Solid State Ionics</i> , 60:189-197 (1993).	
	9	Bowler, B. E., et al., "Long-Range Electron Transfer in Donor (Spacer) Acceptor Molecules and Proteins," <i>Progress in Inorganic Chemistry: Bioinorganic Chemistry</i> , 38:259-322 (1990).	
	10	Brun, A. M., et al., "Photochemistry of Intercalated Quaternary Diazaaromatic Salts," <i>J. Am. Chem. Soc.</i> , 113:8153-8159 (1991).	
	11	Bumm, et al., "Are Single Molecular Wires Conducting?," <i>Science</i> 271:1705-1707 (1996).	
	12	Cantor, C.R. et al., "Report on the Sequencing by Hybridization Workshop," <i>Genomics</i> , 13:1378-1383 (1992).	
	13	Chang, I-Jy, et al., "High-Driving-Force Electron Transfer in Metalloproteins: Intramolecular Oxidation of Ferrocycytochrome c by Ru(2,2'-bpy) ₂ (im)(His-33) ³⁺ ," <i>J. Am. Chem. Soc.</i> , 113:7056-7057 (1991).	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
22	16	Chrisey, et al., "Covalent attachment of synthetic DNA to self-assembled monolayer films," <i>Nucleic Acids Research</i> , 24(15):3031-3039 (1996).	
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	18	<i>Commerce Business Daily Issue</i> of September 26, 1996 PSA#1688.	
	19	DATABASE WPI, Derwent Publications Ltd., London, GB; AN 88-320199 & JP, A, 53 238 166 (MITSUBISHI DENKI KK), 4 October 1988.	
	20	Davis, L. M., et al., "Electron Donor Properties of the Antitumour Drug Amsacrine as Studied by Fluorescence Quenching of DNA-Bound Ethidium," <i>Chem.-Biol. Interactions</i> , 62:45-58 (1987).	
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32	29	Elias, H., et al., "Electron-Transfer Kinetics of Zn-Substituted Cytochrome c and Its Ru(NH ₃) ₅ (Histidine-33) Derivative," <i>J. Am. Chem. Soc.</i> , 110:429-434 (1988).	
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82	42	Heller, A., "Electrical Wiring of Redox Enzymes," <i>Acc. Chem. Res.</i> , 23:128-134 (1990).	
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52	66	Miller, C., "Absorbed ω -Hydroxy Thiol Monolayers on Gold Electrodes: Evidence for Electron Tunneling to Redox Species in Solution," <i>J. Phys. Chem.</i> , 95:877-886 (1991).	
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82	77	Schuhmann, W., et al., "Electron Transfer between Glucose Oxidase and Electrodes via Redox Mediators Bound with Flexible Chains to the Enzyme Surface," <i>J. Am. Chem. Soc.</i> , 113:1394-1397 (1991).	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
8Z	88	Turro, N., et al. "Photoelectron Transfer Between Molecules Adsorbed in Restricted Spaces," <i>Photochem. Convers. Storage Sol. Energy, Proc. Int. Conf., 8th</i> , pp 121-139 (1990).	
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